Queen's Algebraic Geometry
— Seminar —

Equivariant resolutions of De Concini-Procesi ideals

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Abstract

For modules over polynomial rings with a reasonable group action, the minimal free resolution of the module inherits an action by the same group. Understanding how the group acts on the resolution leads to a refinement of classical invariants of the module, such as the Betti numbers and the Hilbert series. In this talk, I will present examples of resolutions, with the action of a symmetric group, arising from certain ideals introduced by De Concini and Procesi with particular significance in geometry, combinatorics and representation theory.

Monday 15 September 2014
16:30–17:30
319 Jeffery Hall